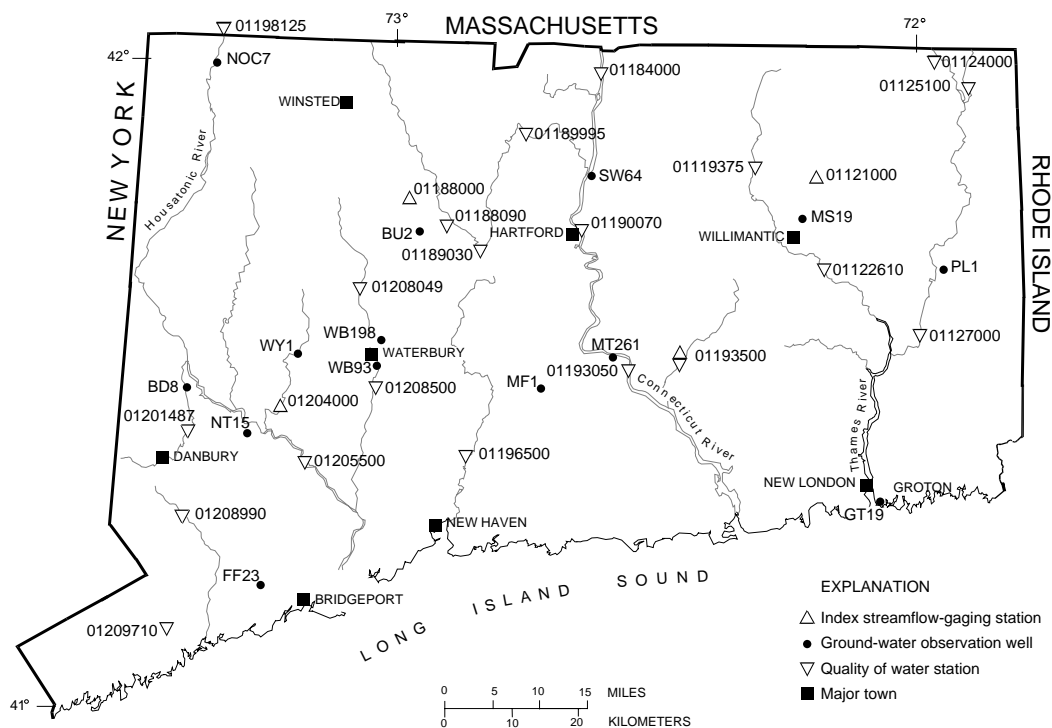


WATER-RESOURCES CONDITIONS IN CONNECTICUT, MAY 2001

The USGS provides maps, reports, and information to help others manage, develop, and protect America's water, energy, mineral, land, and biological resources.



DATA-COLLECTION SITES USED IN THIS REPORT

This report contains a small part of the ground-water, surface-water, and water-quality data collected by the USGS at sites in Connecticut. More complete information may be found in the annual Water-Data Report. Data for this report were collected by the USGS in cooperation with the Connecticut Dept. of Environmental Protection.

For more information on USGS programs in Connecticut, please contact Virginia de Lima (District Chief); 101 Pitkin St., East Hartford, CT 06108; **phone (860) 291-6740**; fax (860) 291-6799; dc_ct@usgs.gov

Additional earth science information, including this document, is on the USGS Home Page on the World Wide Web at **<http://www.usgs.gov>** or the Connecticut District home page at **<http://ct.water.usgs.gov>**
For more information on all USGS reports and products (including maps, images, and computerized data), call **1-888-ASK-USGS**

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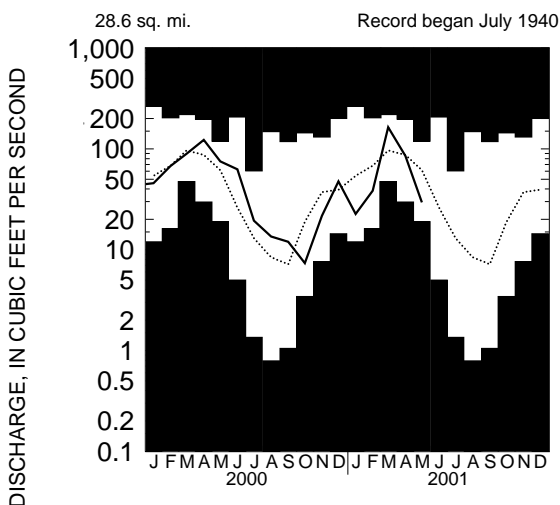
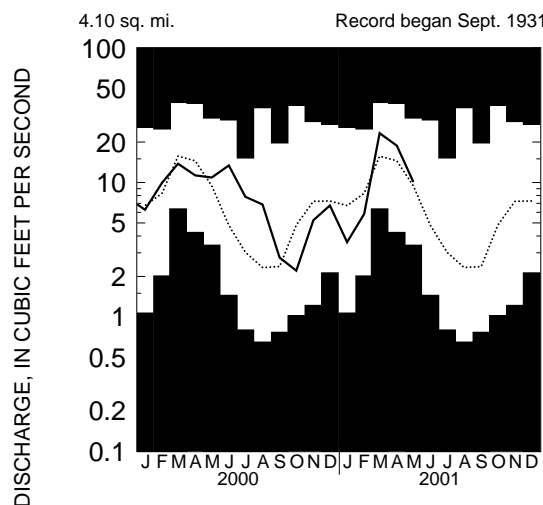
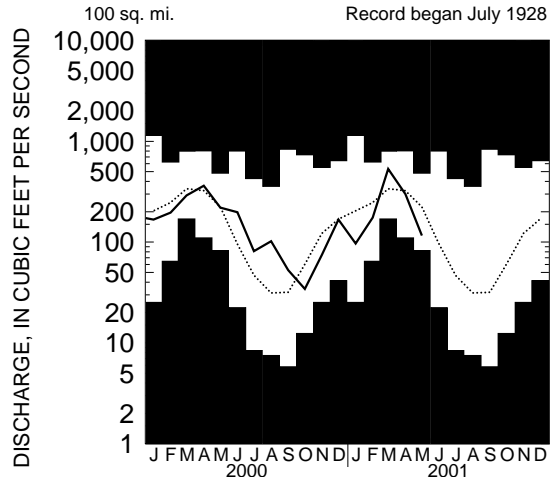
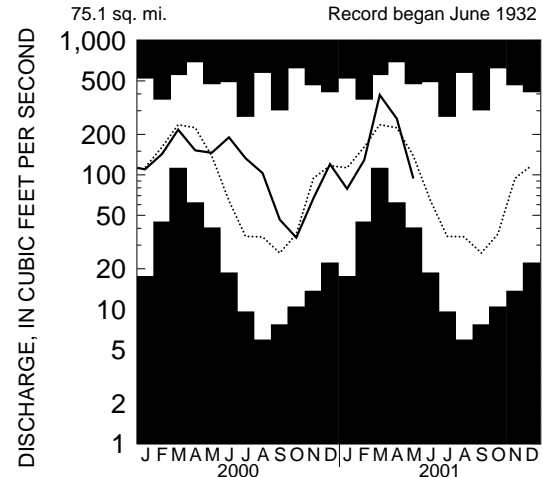
STREAMFLOW (measured in cubic feet per second) —→ PROVISIONAL DATA ←—

Streamflows in May were in the below-normal to normal range for the entire State. Flow in Mount Hope River (NE Connecticut), Salmon River (SE Connecticut) and Pomperaug River (SW Connecticut) fell to the below-normal range after being in the normal range for 1 month. Burlington Brook (NW Connecticut), remained in the normal range for the second consecutive month. Across the State, mean streamflow for May averaged 68 percent of the May long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MAY 2001 MEAN	APRIL 2001 MEAN	MAY 2000 MEAN	MAY MAXIMUM VALUE (year recorded)		MAY MINIMUM VALUE (year recorded)		MAY MEDIAN (1961-90)
MT HOPE RIVER (01121000)	29.5	85.2	75.2	119	1984	19.0	1957	61.6
BURLINGTON (01188000)	10.1	18.8	10.9	30.1	1989	3.42	1965	9.45
SALMON RIVER (01193500)	116	300	220	482	1989	82.6	1986	224
POMPERAUG (01204000)	94.0	262	146	476	1989	40.3	1941	138

MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

Shaded areas on graphs show highest and lowest monthly mean discharge of record.
 — Current record Median (1961-1990)

MOUNT HOPE RIVER NEAR WARRENVILLE**BURLINGTON BROOK NEAR BURLINGTON****SALMON RIVER NEAR EAST HAMPTON****POMPERAUG RIVER AT SOUTHBURY**

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL QUALITY OF SELECTED STREAMS IN CONNECTICUT




→ PROVISIONAL DATA ←

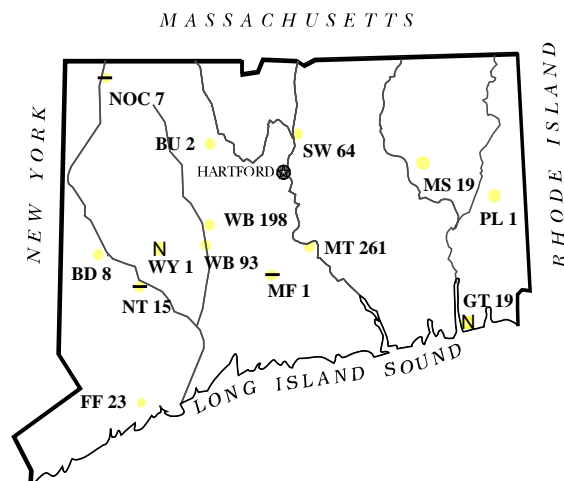
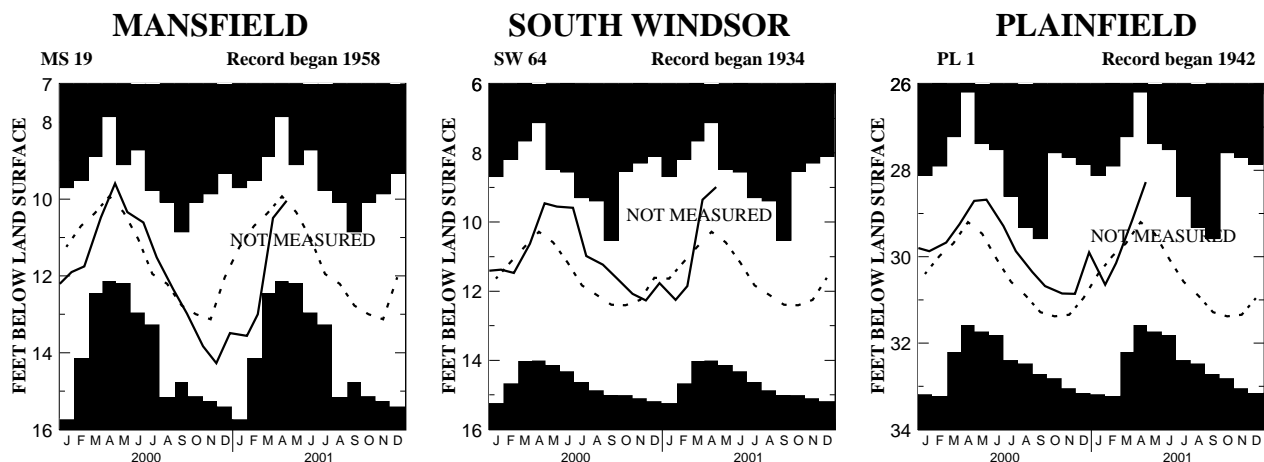
[Station locations shown on front page; --, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; **bacteriological analysis** reconnaissance data enumerated using membrane filter method with immediate incubation; **col/100 mL**, colonies per 100 milliliters; **K**, results based on colony count outside the acceptable range (non-ideal colony count)]

USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2001	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L)/PERCENT SATURATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	5/8	68.2/--	121	17.5	9.9/103	7.2	K2	K5
01122610 Shetucket R. at South Windham	5/23	493/--	128	16.4	9.0/93	7.3	92	K171
01124000 Quinebaug R. at Quinebaug	5/21	79.6/73	227	18.4	8.9/96	7.22	28	K15
01125100 French R. at North Grosvenordale	5/21	43.1/--	281	19.3	9.8/105	7.81	39	—
01127000 Quinebaug R. at Jewett City	5/11	964/48	152	20.3	11.4/126	6.7	—	—
01184000 Connecticut R. at Thompsonville	5/24	14,100/40	128	15.1	9.3/92	7.46	1,000	980
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	SITE NOT SAMPLED THIS MONTH							
01189995 Farmington R. at Tariffville	SITE NOT SAMPLED THIS MONTH							
01190070 Connecticut R. at Hartford	SITE NOT SAMPLED THIS MONTH							
01193050 Connecticut R. at Middle Haddam	SITE NOT SAMPLED THIS MONTH							
01193500 Salmon R. near East Hampton	SITE NOT SAMPLED THIS MONTH							
01196500 Quinnipiac R. at Wallingford	SITE NOT SAMPLED THIS MONTH							
01198125 Housatonic R. near Ashley Falls, MA	5/2	857/--	307	15.5	8.6/98	8.1	K6	K2
01201487 Still R. at Rt. 7 at Brookfield Center	5/14	34.0/--	595	15.0	7.7/77	7.8	92	—
01205500 Housatonic R. at Stevenson	5/14	110/93	225	20.0	12.4/136	8.5	46	—
01208049 Naugatuck R. near Waterville	5/15	61/--	238	17.5	8.1/86	7.3	92	—
01208500 Naugatuck R. at Beacon Falls	5/10	231/66	333	19.5	9.3/101	8.7	84	—
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	5/3	186/--	344	20.0	13.3/146	8.9	200	30

GROUND-WATER LEVELS

(Status of ground-water storage as indicated by water level changes in observation wells, as shown on hydrographs)

-  Shaded area on graphs show highest and lowest water levels of record through calendar year 2000.
 Solid line shows current water levels.
 Dashed line is monthly median for period of record through calendar year 2000.

**ABOVE NORMAL**

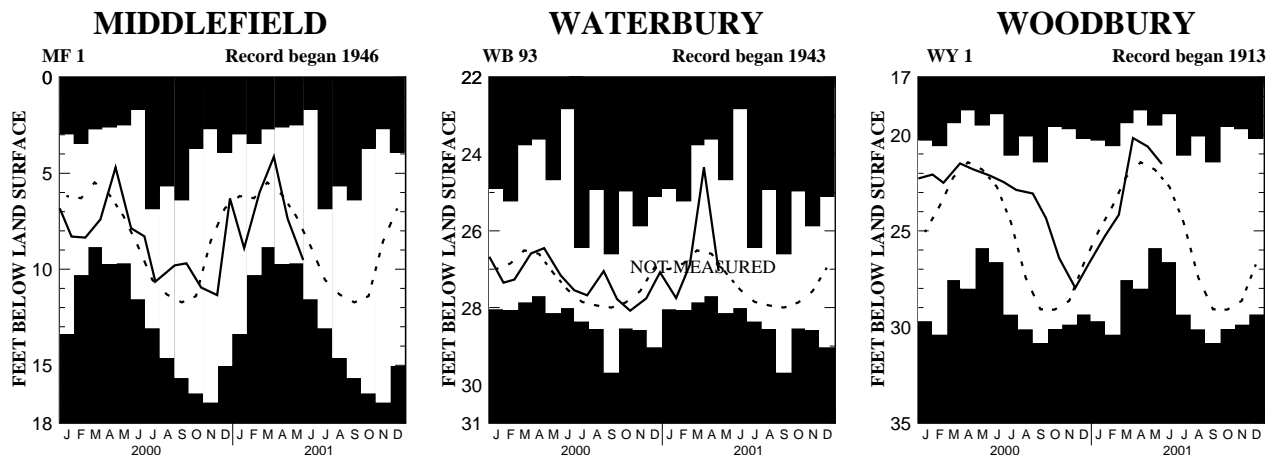
Within the highest 25% of record for this month.

**NORMAL RANGE**

Between the highest and lowest 25% of record for this month.

**BELOW NORMAL**

Within the lowest 25% of record for this month.



GROUND-WATER LEVELS

Due to funding constraints, selected ground-water wells were not measured in May.

Four low ground-water levels were recorded during the month of May in the remaining 25 wells measured. Ground-water levels are in feet below land surface. Maximum and minimum values are from end-of-the month readings and may not be the highest or lowest recorded during the month. Statistics are based on period of record (through calendar year 2000). Ground-water level data are collected by USGS personnel and individual observers.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	MAY 2001 (DATE)		APR. 2001	MAY 2000	MAY MAX (YR RECORDED)		MAY MIN (YR RECORDED)		MAY MEDIAN		
BD 8 (Brookfield)											1966
BU 2 (Burlington)											1946
BU 143 (Burlington)											1996
BU 144 (Burlington)											1996
CL 223 (Clinton)											1991
CL 224 (Clinton)											1991
CL 225 (Clinton)											1991
CO 335 (Colchester)	7.27	30	6.86	6.67	6.77	1998	7.69	1986	7.20		1986
CV 51 (Coventry)											1992
D 116 (Durham)	0.94	30	0.92	0.16	0.16	1989/00	3.79	1986	0.90		1986
D 117 (Durham)	10.77	30	10.51	9.53	8.07	1996	12.57	1986	10.18		1986
D 119 (Durham)	0.77	30	0.69	0.11	0.11	2000	2.73	1986	1.12		1986
D 120 (Durham)	3.10	30	2.22	1.73	1.73	2000	3.42	1986	2.42		1986
EL 82 (Ellington)											1987
EL 139 (Ellington)											1993
EL 140 (Ellington)											1993
EW 133 (East Windsor)											1986
EW 134 (East Windsor)											1986
FF 23 (Fairfield)											1966
FF 30 (Fairfield)											1993
FF 31 (Fairfield)											1993
FF 32 (Fairfield)											1993
FF 33 (Fairfield)											1993
GR 328 (Granby)											1981
GR 329 (Granby)											1982
GR 330 (Granby)											1982
GR 331 (Granby)											1983
GT 19 (Groton)	14.62	28	14.27	14.08	11.68	1979	16.17	1999	14.80		1958
HM 445 (Hamden)											1988
HM 446 (Hamden)											1993
HM 447 (Hamden)											1993
HM 448 (Hamden)											1993
HM 449 (Hamden)											1993
HM 450 (Hamden)											1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	MAY 2001 (DATE)		APR. 2001	MAY 2000	MAY MAX (YR RECORDED)		MAY MIN (YR RECORDED)		MAY MEDIAN		
MB 32 (Marlborough)	4.40	30	2.93	2.93	2.93	2000	5.68	1986	4.28		1986
MB 35 (Marlborough)	10.23	30	7.78	7.52	7.52	2000	10.23	2001	9.18	<	1993
MB 36 (Marlborough)	3.41	30	3.36	2.71	2.71	2000	4.20	1994	3.39		1993
MF 1 (Middlefield)	9.52	30	7.38	7.87	2.48	1989	9.67	1966	7.35		1946
MS 19 (Mansfield)											1958
MS 44 (Mansfield)											1982
MS 45 (Mansfield)											1987
MS 46 (Mansfield)											1987
MS 74 (Mansfield)											1992
MS 75 (Mansfield)											1992
MS 76 (Mansfield)											1992
MS 77 (Mansfield)											1993
MT 261 (Middletown)											1956
NHV 201 (North Haven)											1975
NHV 202 (North Haven)											1975
NOC 7 (North Canaan)	9.72	30	9.37	9.32	8.86	1973	9.95	1964	9.47		1958
NSN 77 (N. Stonington)											1991
NSN 78 (N. Stonington)											1991
NT 15 (Newtown)	5.59	30	2.50	4.64	0.30	1989	7.69	1985	3.77		1966
PL 1 (Plainfield)											1942
SB 30 (Southbury)	18.44	30	17.51	18.17	16.97	1996	19.44	1995	17.92		1979
SB 39 (Southbury)	6.50	30	6.29	6.52	6.03	1996	7.10	1992	6.49		1991
SB 41 (Southbury)	48.97	30	47.92	47.37	45.77	1994	48.97	2001	46.67	<	1991
SB 42 (Southbury)	15.47	30	13.96	12.49	11.95	1996	15.47	2001	13.36	<	1993
SC 19 (Scotland)	5.63	30	4.05	2.49	2.49	2000	6.07	1993	4.41		1983
SC 20 (Scotland)	5.76	30	2.85	4.16	3.21	1998	6.00	1993	4.89		1983
SC 21 (Scotland)	0.17	30	+0.04	+0.70	+0.70	2000	0.25	1995	0.04		1983
SC 22 (Scotland)	11.49	30	10.01	10.56	10.56	2000	11.86	1999	11.18		1984
SC 23 (Scotland)	2.27	30	2.17	1.39	1.39	2000	2.47	1993	2.20		1983
SM 7 (Salem)											1979
SW 64 (S. Windsor)											1934
SY 15 (Salisbury)	12.12	26	11.40	12.47	10.85	1989	13.96	1988	12.53		1966
SY 23 (Salisbury)	8.44	26	6.16	5.30	4.95	1989	8.44	2001	6.48	<	1987
SY 24 (Salisbury)	12.15	26	8.95	8.70	7.82	1989	12.47	1995	10.00		1986
WB 93 (Waterbury)											1943
WB 198 (Waterbury)											1943
WY 1 (Woodbury)	21.52	30	20.61	22.12	19.49	1989	28.35	1915	22.08		1913

New records: >, new record high for month; >>, new record high for period of record; <, new record low for month;
 <<, new record low for period of record; *, median not calculated--number shown is mean; NA, not available; OBS, obstructed;
 +, water level above ground surface